CLAIMS

What is claimed is:

1. A system for delivering a chemical agent-containing formulation in the form of a spray or stable foam, the system comprising an aerosol dispenser containing a formulation comprising the chemical agent in the form of a solution or stable suspension and an aqueous solution of an anionic surface active agent as a delivery agent.

2. A system according to claim 1 wherein the surface active agent is selected from the group consisting of sodium lauryl sulfate, sodium cocomonoglyceride sulfonate, sodium lauryl sarcosinate, sodium dodecyl benzenesulfonate, dioctyl sodium sulfosuccinate, sodium lauryl sulfoacetate, sulfolaurate, and the 2-hydroxyalkyl sulfates.

3. A system according to claim 2 wherein the surface active agent comprises sodium lauryl sulfate.

4. A system according to claim 3 wherein sodium lauryl sulfate is present at a concentration of between about 0.1% and about 1%, by weight, based on the weight of the formulation.

5. A system according to claim 3 wherein the formulation comprises hydrogen peroxide as the chemical agent.

6. A system according to claim 5 wherein the formulation is an oral formulation.

7. A system according to claim 5 wherein the formulation further comprises glycerin.

8. A system according to claim 5 wherein the hydrogen peroxide is present at a concentration of between about 1% and about 3%, by weight, based on the weight of the formulation.

9. A system according to claim 3 wherein the chemical agent comprises purified sea water.

10. A system according to claim 9 wherein the sea water is used in an amount sufficient to provide an isoosmotic formulation.

11. A method of delivering a chemical agent-containing formulation in the form of a spray or stable foam, the method comprising the steps of: (1) providing an aerosol dispenser containing a formulation comprising the chemical agent and an anionic surface active agent as a delivery agent, and (2) delivering the formulation in the form of a spray or stable foam by activation of the dispenser.

12. A method according to claim 11 wherein the surface active agent is selected from the group consisting of sodium lauryl sulfate, sodium cocomonoglyceride sulfonate, sodium lauryl sarcosinate, sodium dodecyl benzenesulfonate, dioctyl sodium sulfosuccinate, sodium lauryl sulfoacetate, sulfolaurate, and the 2-hydroxyalkyl sulfates.

13. A method according to claim 12 wherein the surface active agent comprises sodium lauryl sulfate.

14. A method according to claim 13 wherein sodium lauryl sulfate is present at a concentration of between about 0.1% and about 1%, by weight, based on the weight of the formulation.

15. A method according to claim 13 wherein the formulation comprises hydrogen peroxide as the chemical agent.

16. A method according to claim 15 wherein the formulation is an oral formulation.

17. A method according to claim 15 wherein the formulation further comprises glycerin.

18. A method according to claim 15 wherein the hydrogen peroxide is present at a concentration of between about 1% and about 3%, by weight, based on the weight of the formulation.

19. A method according to claim 13 wherein the chemical agent comprises purified sea water.

20. A method according to claim 19 wherein the sea water is used in an amount sufficient to provide an isoosmotic formulation.